

ABSTRACT**The Effect of Tofu Whey Concentration to Fibrinolytic Enzyme
Production of *Bacillus megaterium* BM 9.1**

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Bacillus megaterium BM 9.1 isolated from the ground of Beach Ecotourism Mangrove, Wonorejo, Surabaya has fibrinolytic activity. *Bacillus megaterium* BM 9.1 can grow in tofu whey medium, which is the side product of tofu production. The tofu whey contain enough nitrogen, carbon and mineral to be a growth medium for bacteria. The aims of this research were to determine effectiveness of the tofu whey concentration (30%, 40%, 50% and 60%) against the fibrinolytic enzyme activity at optimal growth of *Bacillus megaterium* BM 9.1. The higher of the tofu whey concentration follow by the higher fibrinolytic activities. It was found that the fibrinolytic activity were 7,772 U/mL at the 60% of tofu whey concentration. According to the result of one-way analysis of variance it can be concluded that each concentrations of tofu whey cause significant differences in fibrinolytic activity of *Bacillus megaterium* BM 9.1.

Keyword : *Bacillus megaterium*, Tofu whey medium, Fibrinolytic activity